

APPLICANT(S): IDAN, Gavriel J. et al.
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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as Canceled:

1-11. (Canceled)

12. (Previously Amended) The system of claim 37 comprising an illumination unit to produce illumination in proportion to a signal from the pressure gauge.

13-26. (Canceled)

27. (Previously Presented) The system of claim 37, further comprising:
a receiving unit to receive pressure data from an in-vivo device; and
a controller to analyze the pressure data and to determine a location of the in-vivo device based on said pressure data.

28. (Canceled)

29. (Canceled)

30. (Previously Presented) The method of claim 38, further comprising:
receiving pressure data from said swallowable imaging device;
analyzing the pressure data; and
determining a location of the swallowable imaging device based on said pressure data.

31-36. (Canceled)

37. (Currently Amended) A system for collecting and displaying in vivo data, the system comprising:

a swallowable in vivo imaging device for collecting in vivo images and in vivo pressure data, said device comprising:

a housing including an optical dome, a shell, and a pliant sleeve surrounding said shell, said pliant sleeve defining a space between the shell and the pliant sleeve, said space being filled with a fluid,

an imaging system enclosed in said housing behind said optical dome, and

a pressure gauge in contact with the fluid in said space between the shell and the pliant sleeve; and

a display to display in vivo pressure data provided by said device simultaneously with corresponding in-vivo images provided by the device, wherein said pressure data displayed is ~~relevant to a~~ measured at a corresponding capture time of the image displayed simultaneously.

38. (Currently Amended) A method for collecting and displaying in-vivo data from a GI tract, the method comprising:

measuring in the GI tract hydrostatic pressure in a pliant sleeve filled with fluid, said sleeve surrounded by a shell of a swallowable imaging device;

collecting image data by said swallowable imaging device to produce an image of the GI tract; and

simultaneously displaying in-vivo pressure data and said image, wherein said pressure data displayed is ~~relevant to a~~ measured at a corresponding capture time of the simultaneously displayed image.

39. (Canceled)

40. (Previously Presented) The system of claim 37 further comprising a transmitter to transmit in vivo pressure data.

41. (Previously Presented) The system according to claim 37 wherein the fluid is a liquid.

42. (Previously Presented) The system according to claim 37 wherein the imaging system comprises an imager, illumination elements to illuminate an in vivo area and an optical element to focus reflected light onto the imager.

43. (Previously Presented) The system according to claim 42 wherein the optical dome is a barrier to body fluids.

44. (Previously Presented) The system according to claim 41 wherein said liquid is dielectric liquid.

45. (Previously Presented) The system according to claim 44 wherein said pressure gauge is immersed in said dielectric liquid.

45. (Previously Presented) The system according to claim 44 wherein at least one element of said device is immersed in said dielectric liquid.

46. (Previously Presented) The system according to claim 37 wherein said pressure gauge is attached to said shell.

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47. (Previously Presented) The system according to claim 37 wherein said pressure gauge is attached to said pliant sleeve.